

Figure 1A

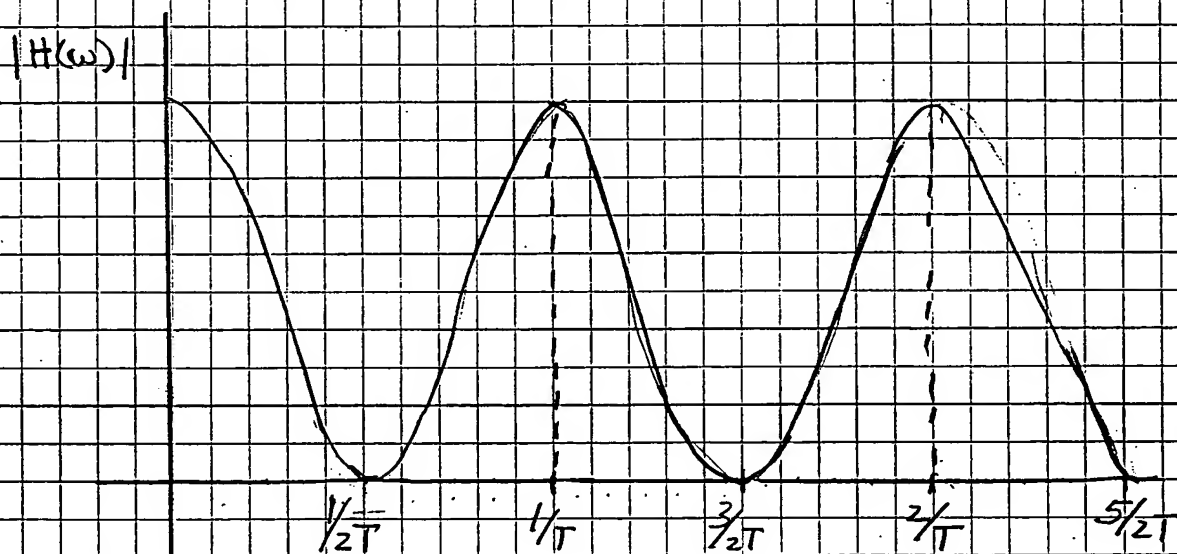


Figure 1B

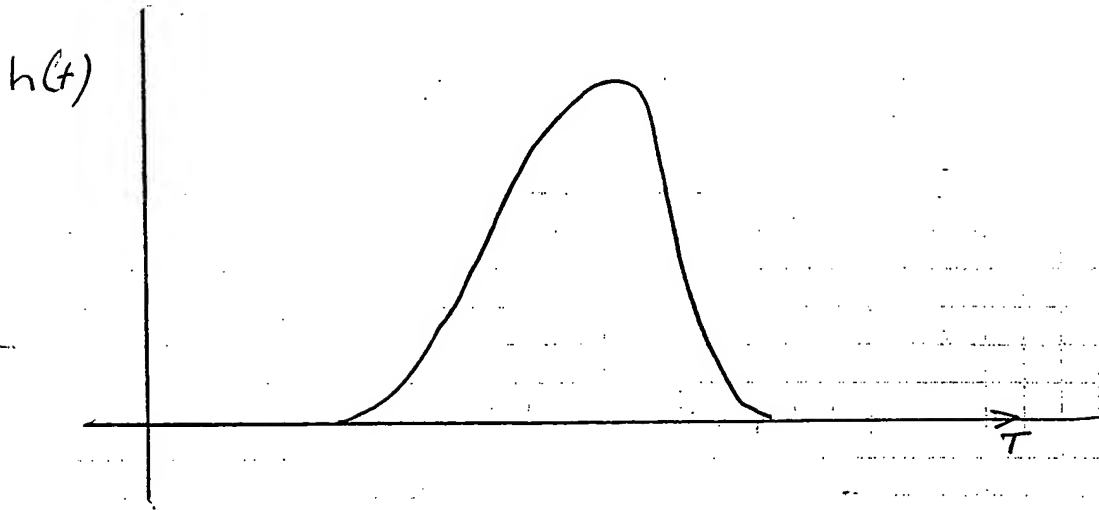


Figure 1C.

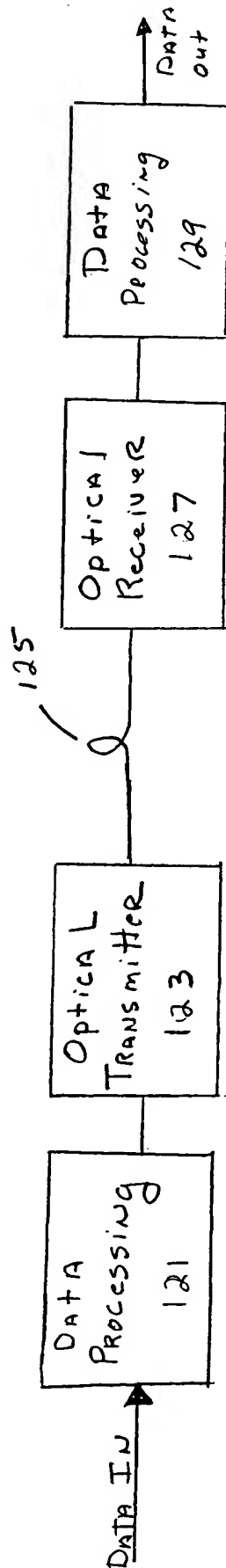
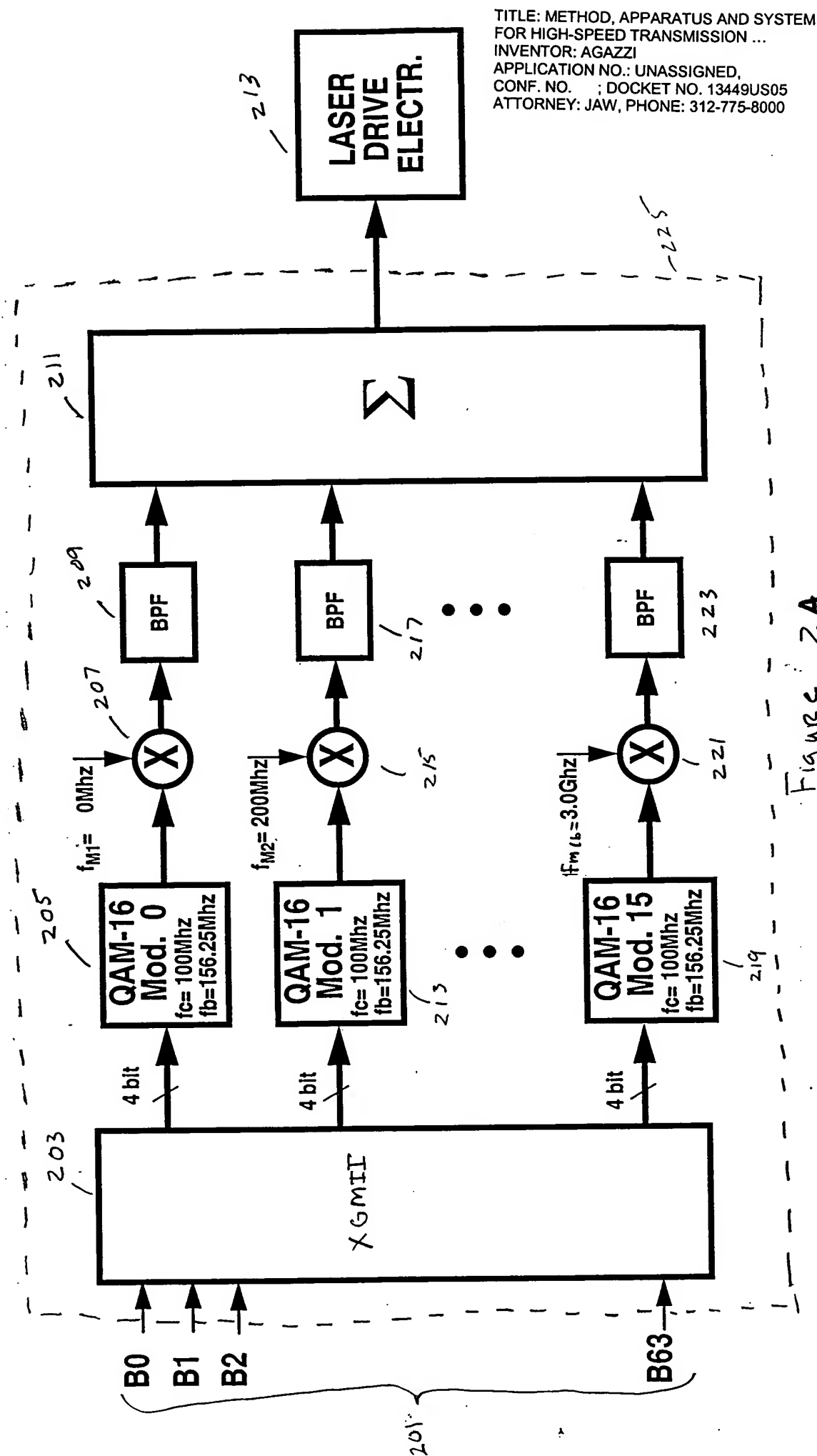


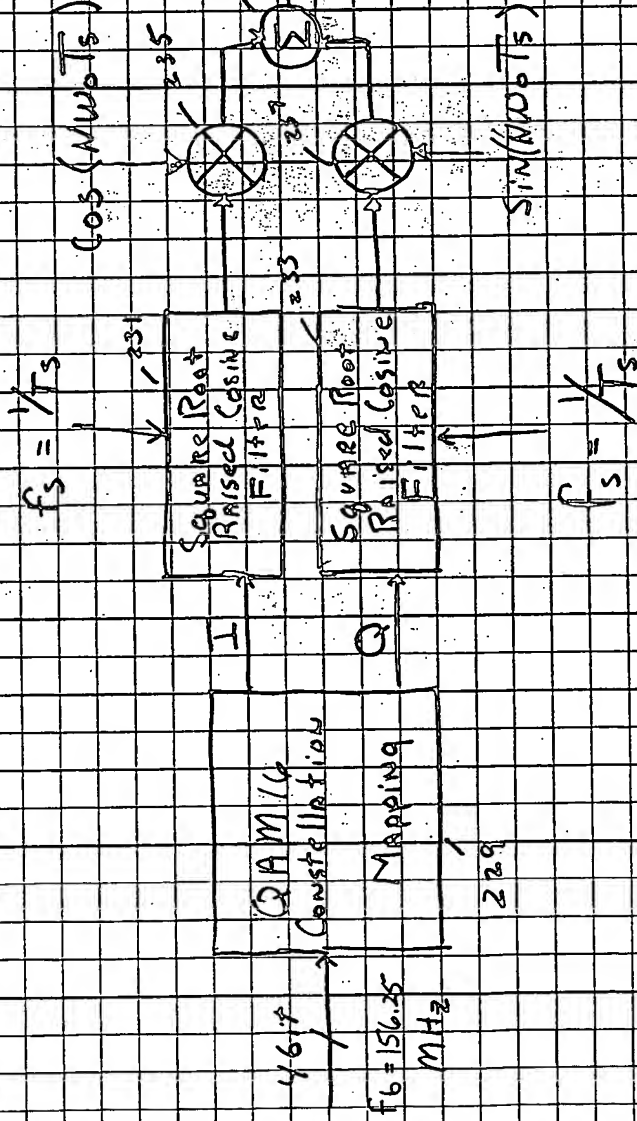
Figure #1D

Multicarrier Modulation Block Diagram (Transmitter)



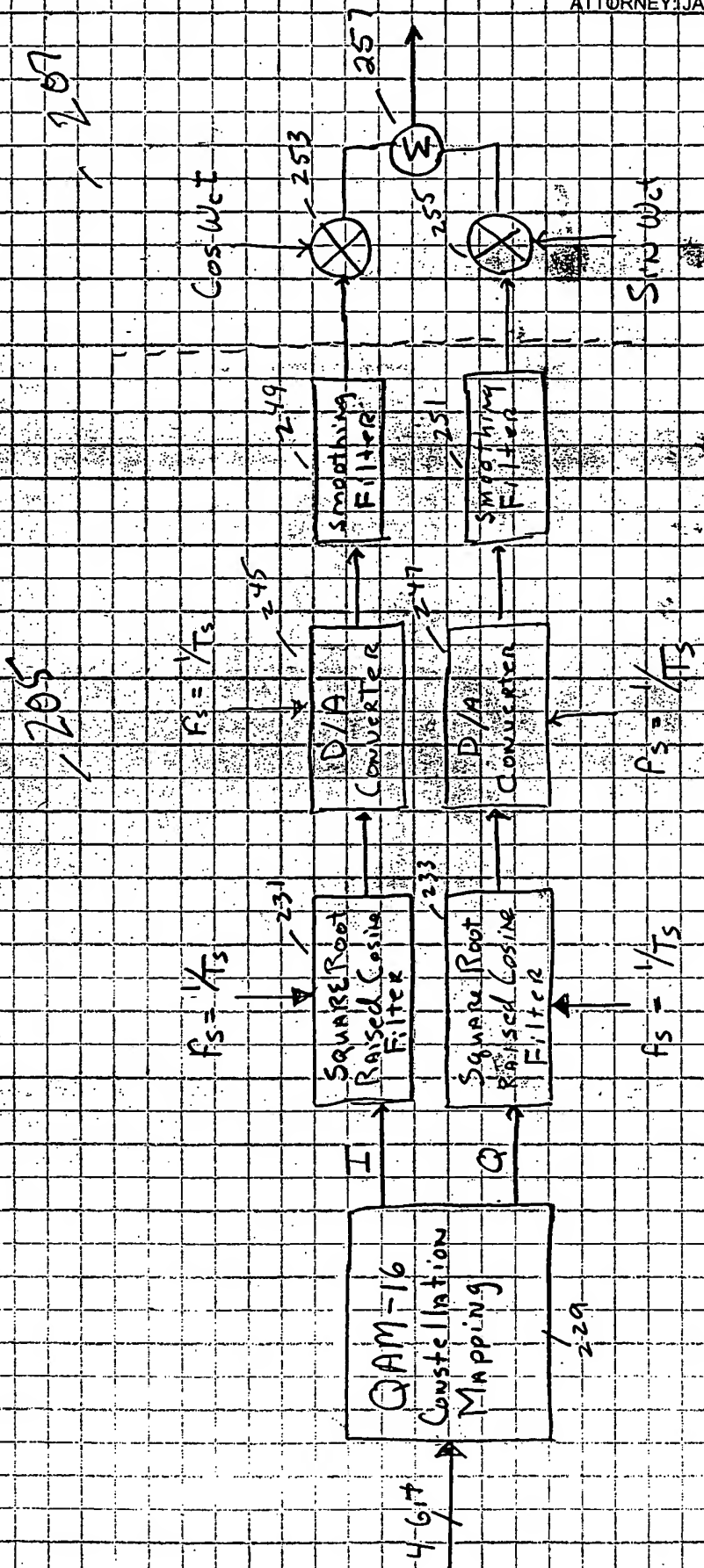
TITLE: METHOD, APPARATUS AND SYSTEM
FOR HIGH-SPEED TRANSMISSION ...
INVENTOR: AGAZZI
APPLICATION NO.: UNASSIGNED,
CONF. NO. ; DOCKET NO. 13449US05
ATTORNEY: JAW, PHONE: 312-775-8000

205



$T_s = \text{Sampling Period} - \text{Digital}$
 $\omega N = 2\pi f_s = \text{digital carrier angular frequencies.}$

Figure 2B



T_s = Sampling period for DSP blocks
 $\omega_c = 2\pi f_c$ = Analog carrier angular frequency

Figure 2C

Multicarrier Modulation Block Diagram (Receiver)

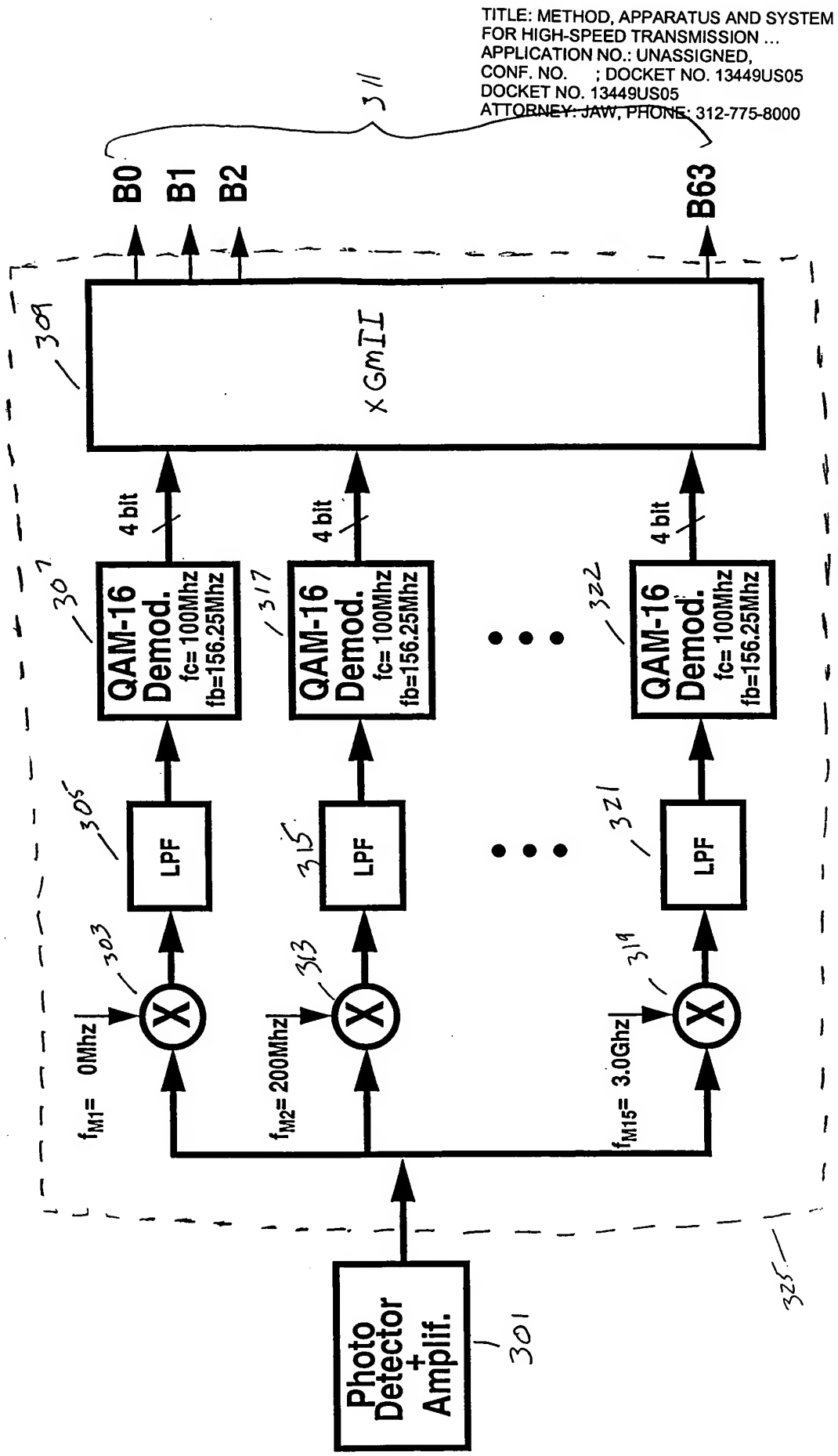
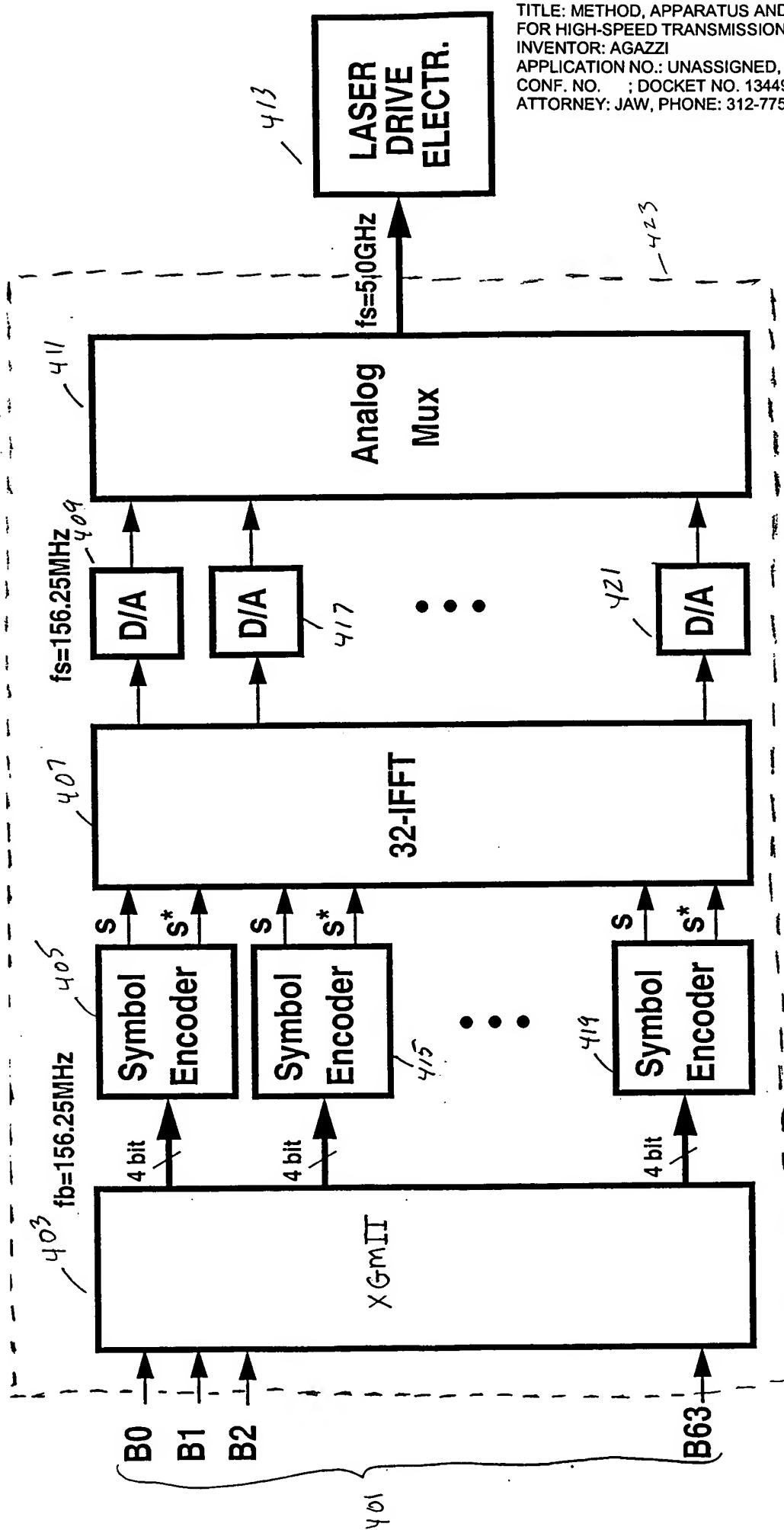


Figure 3

Alternative Implementation of Multicarrier Modulation (Transmitter)



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Figure 4

Alternative Implementation of Multicarrier Modulation (Receiver)

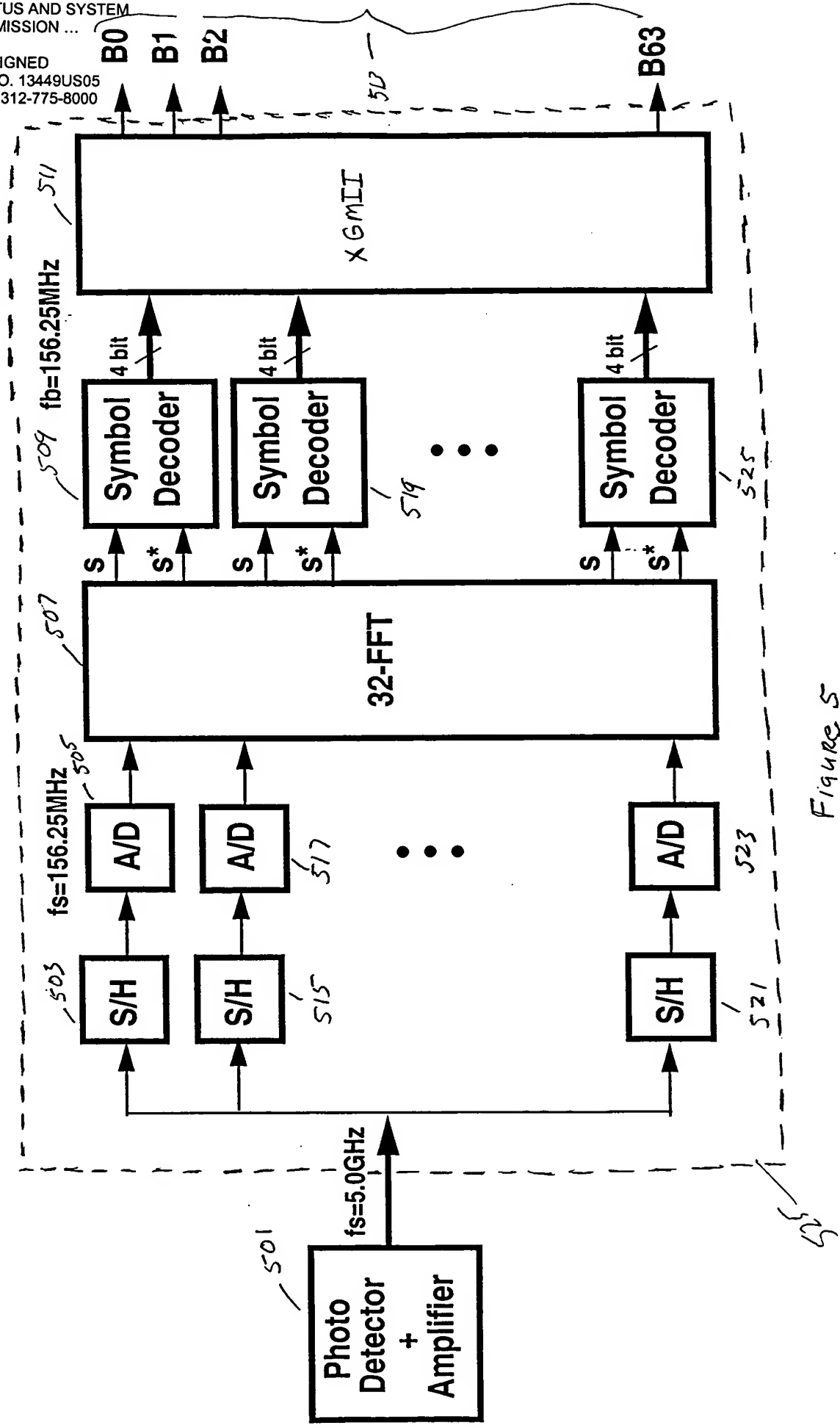


Figure 5

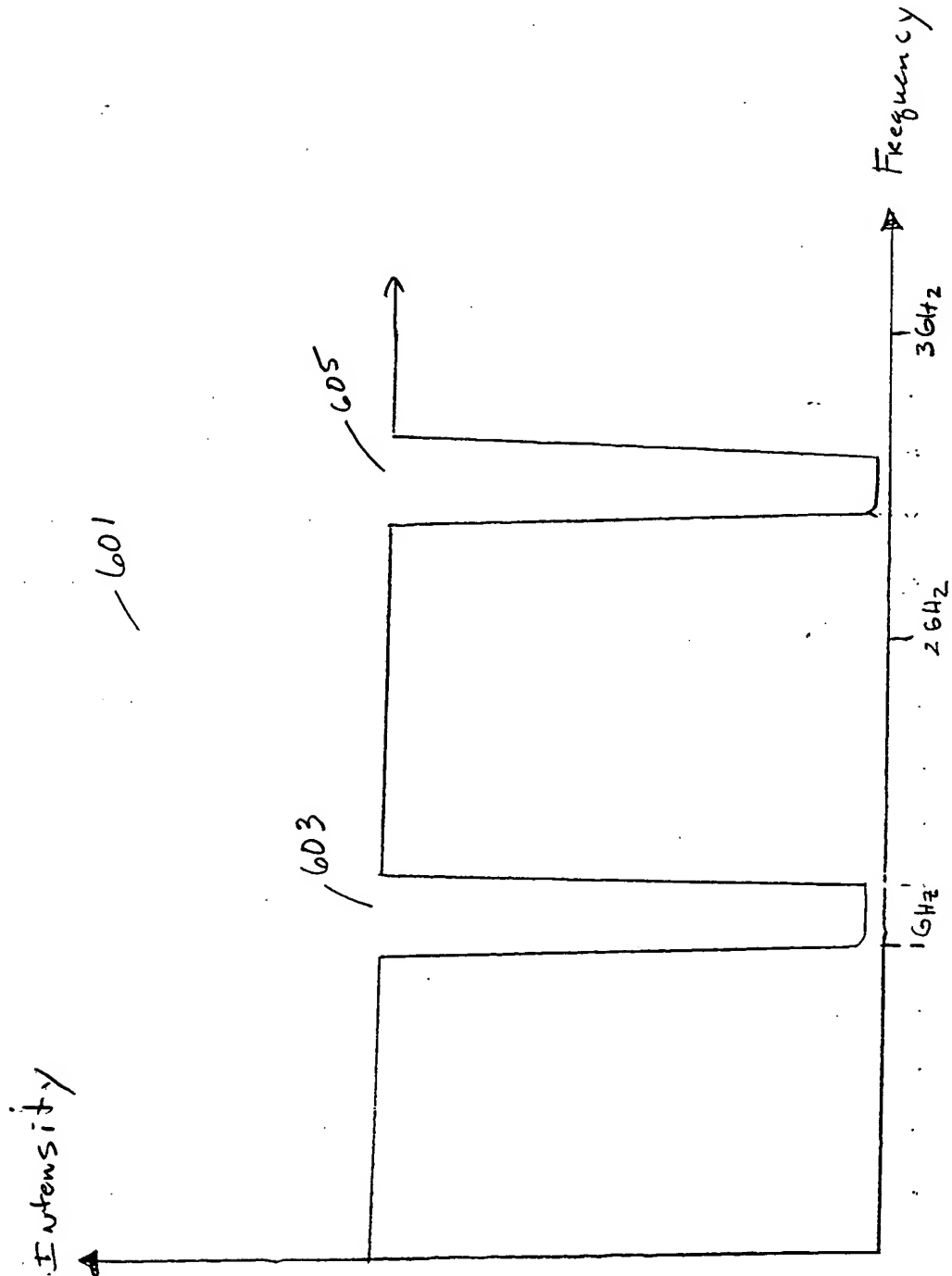


Figure 6

TITLE: METHOD, APPARATUS AND SYSTEM FOR
 HIGH-SPEED TRANSMISSION ...
 INVENTOR: AGAZZI
 APPLICATION NO.: UNASSIGNED,
 CONF. NO. ; DOCKET NO. 13449US05
 ATTORNEY: JAW, PHONE: 312-775-8000

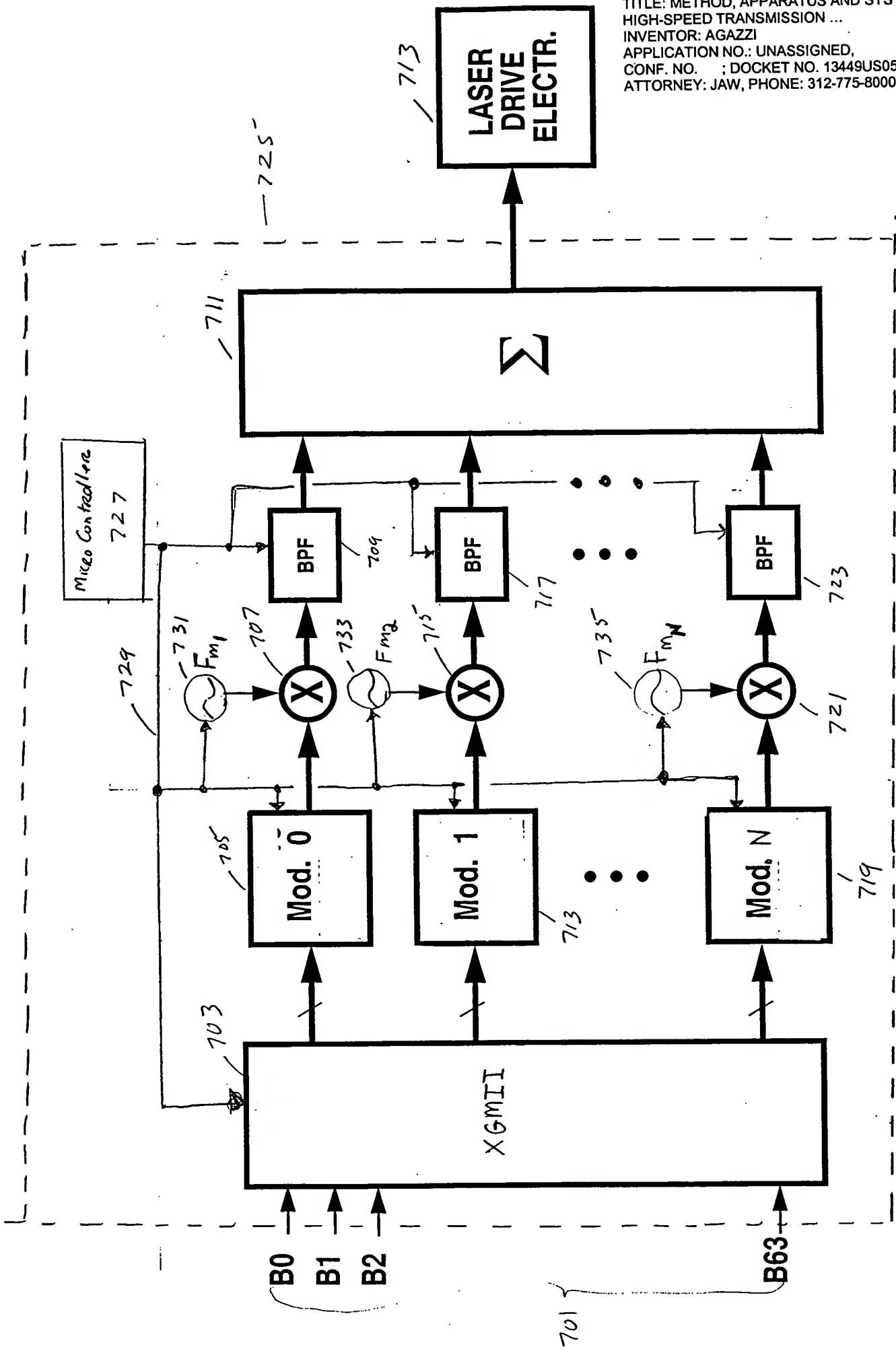


Figure 7A

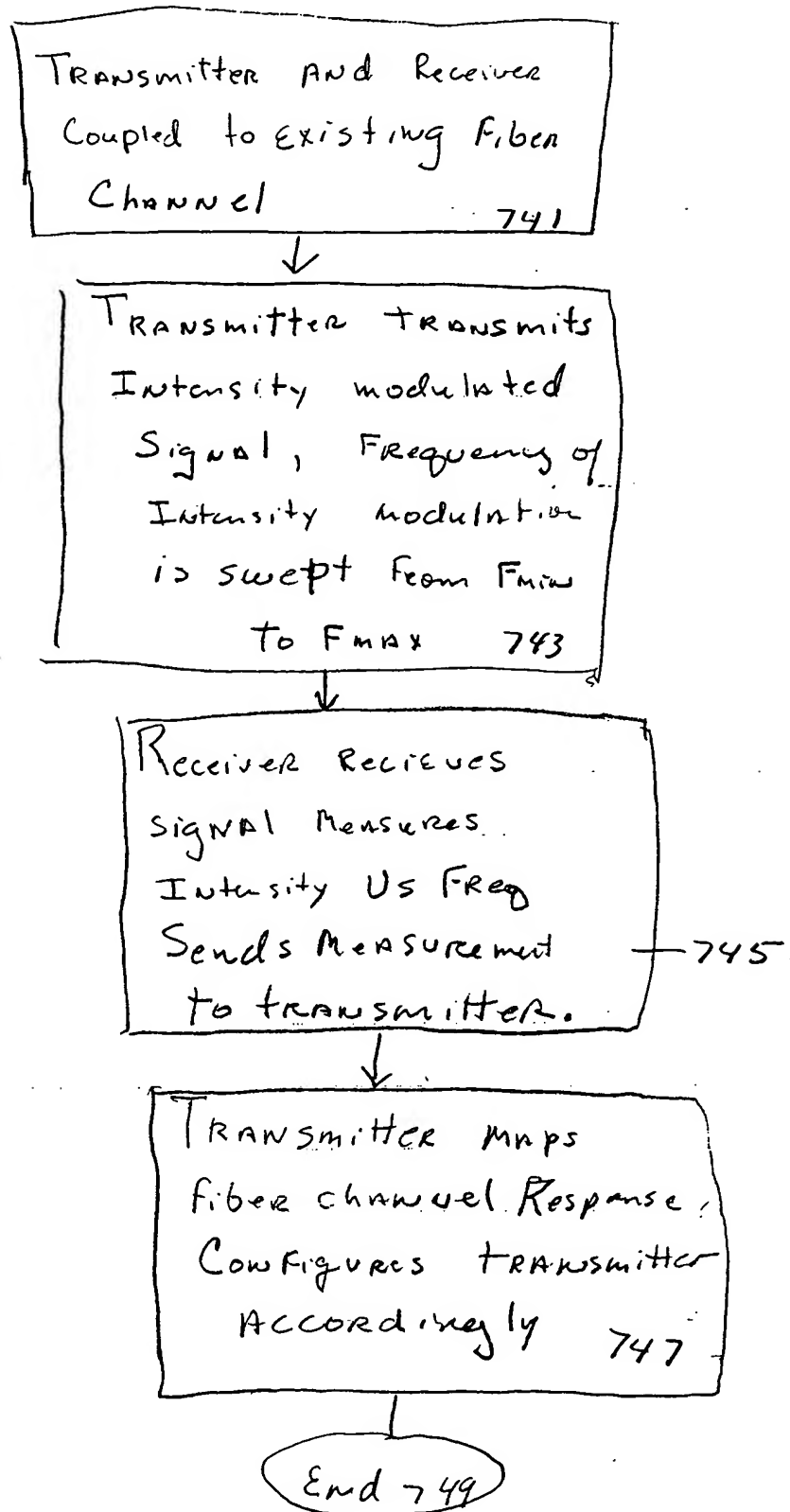


Figure 7B

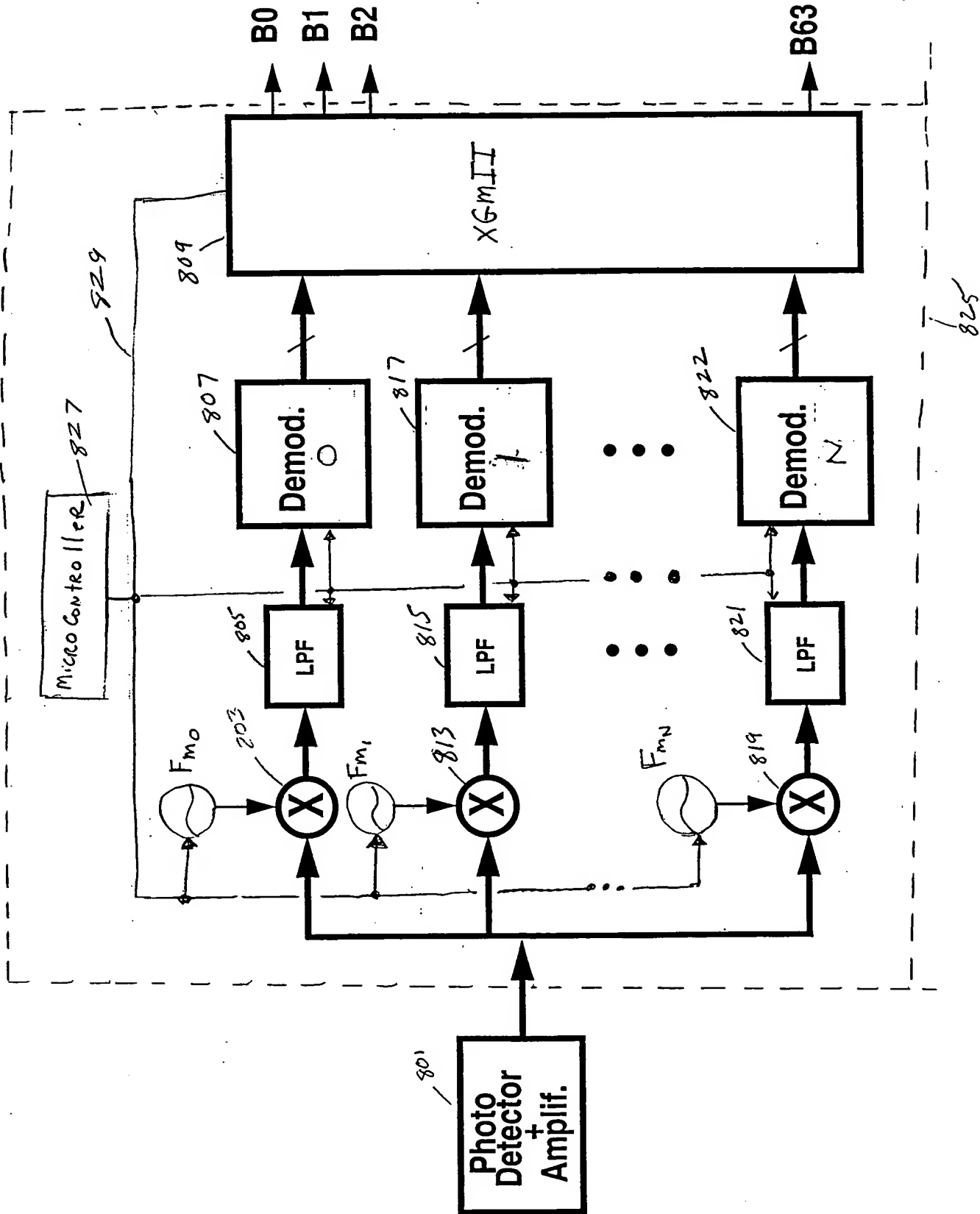


Figure 8

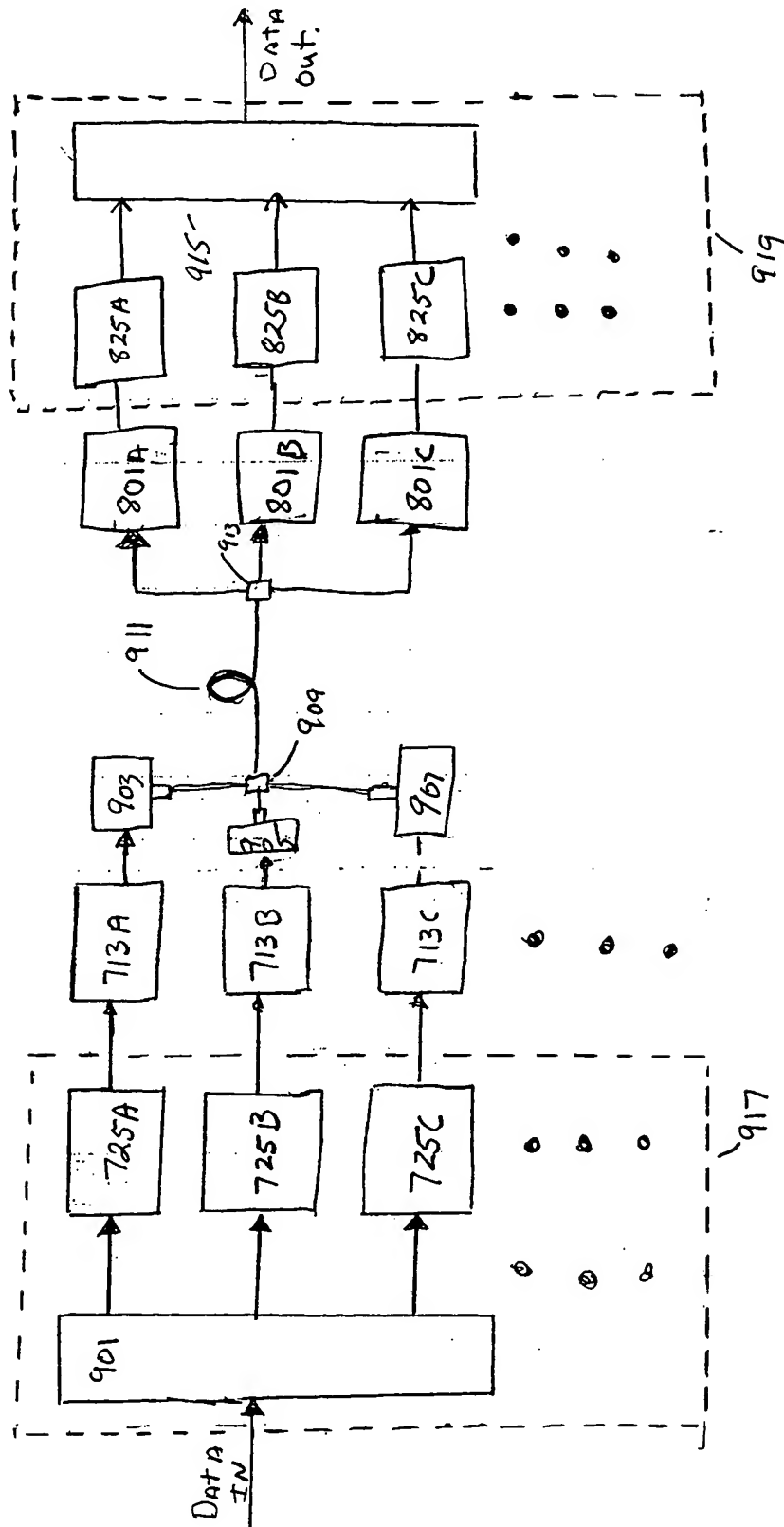


Figure 9

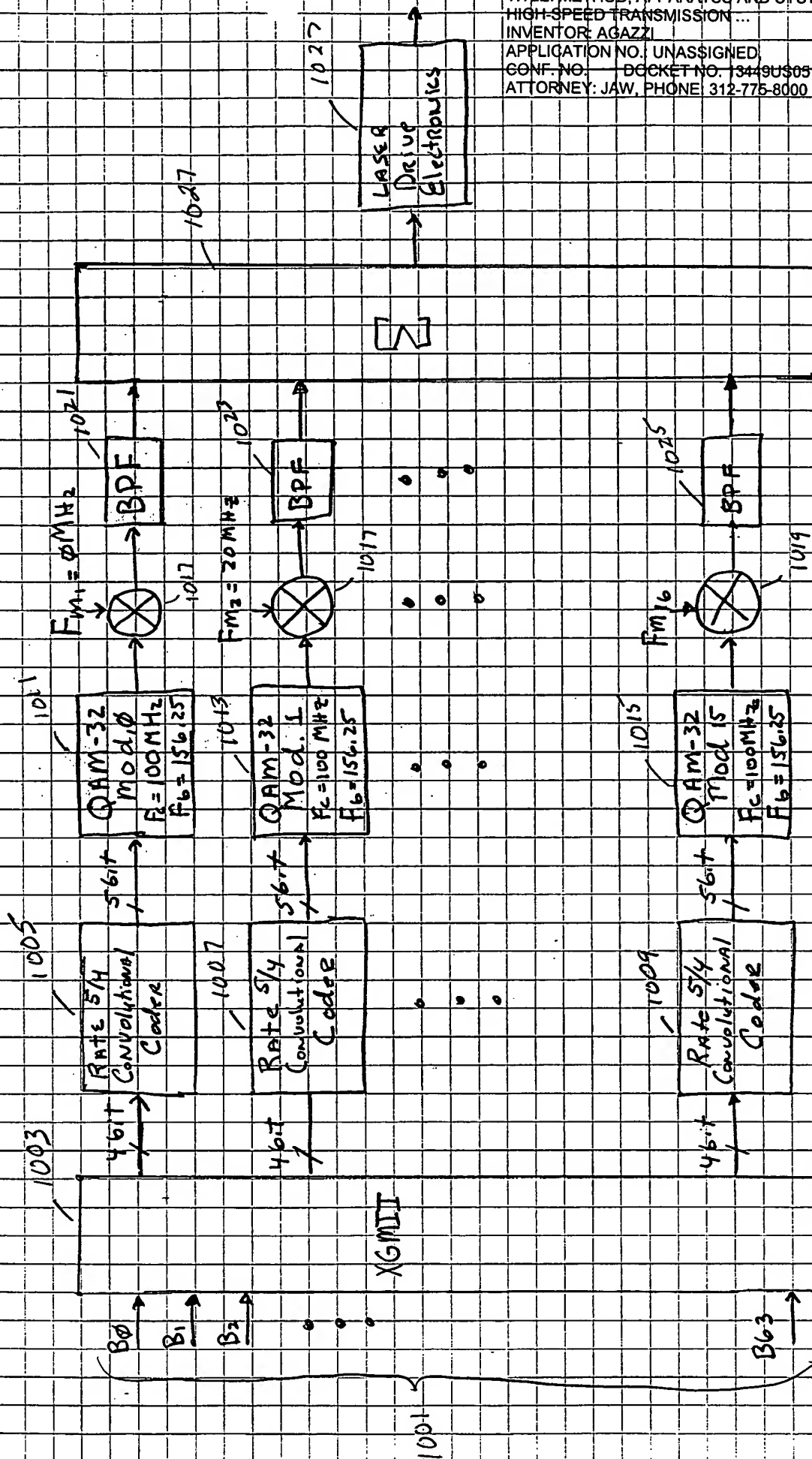


Figure 10

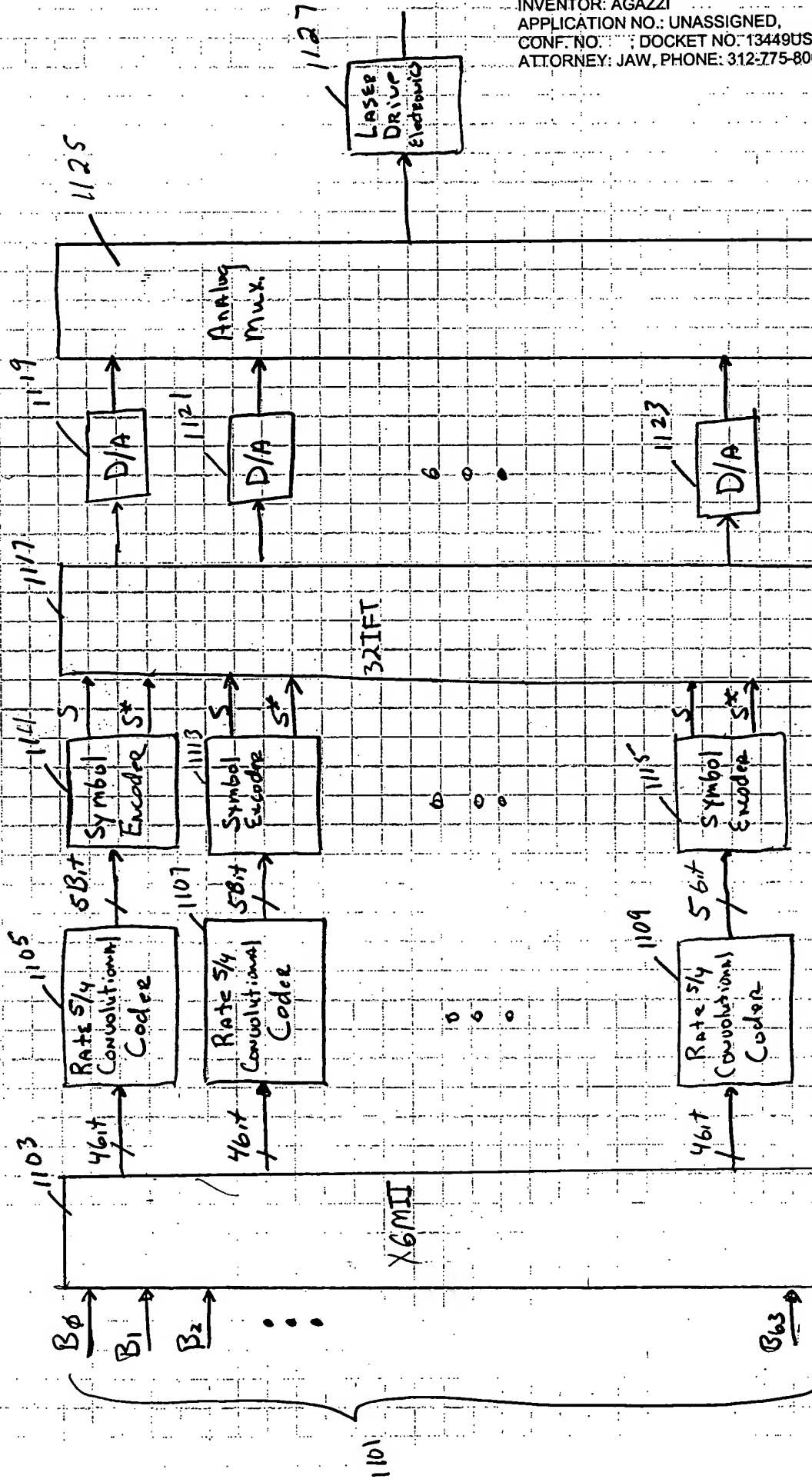


Figure 11

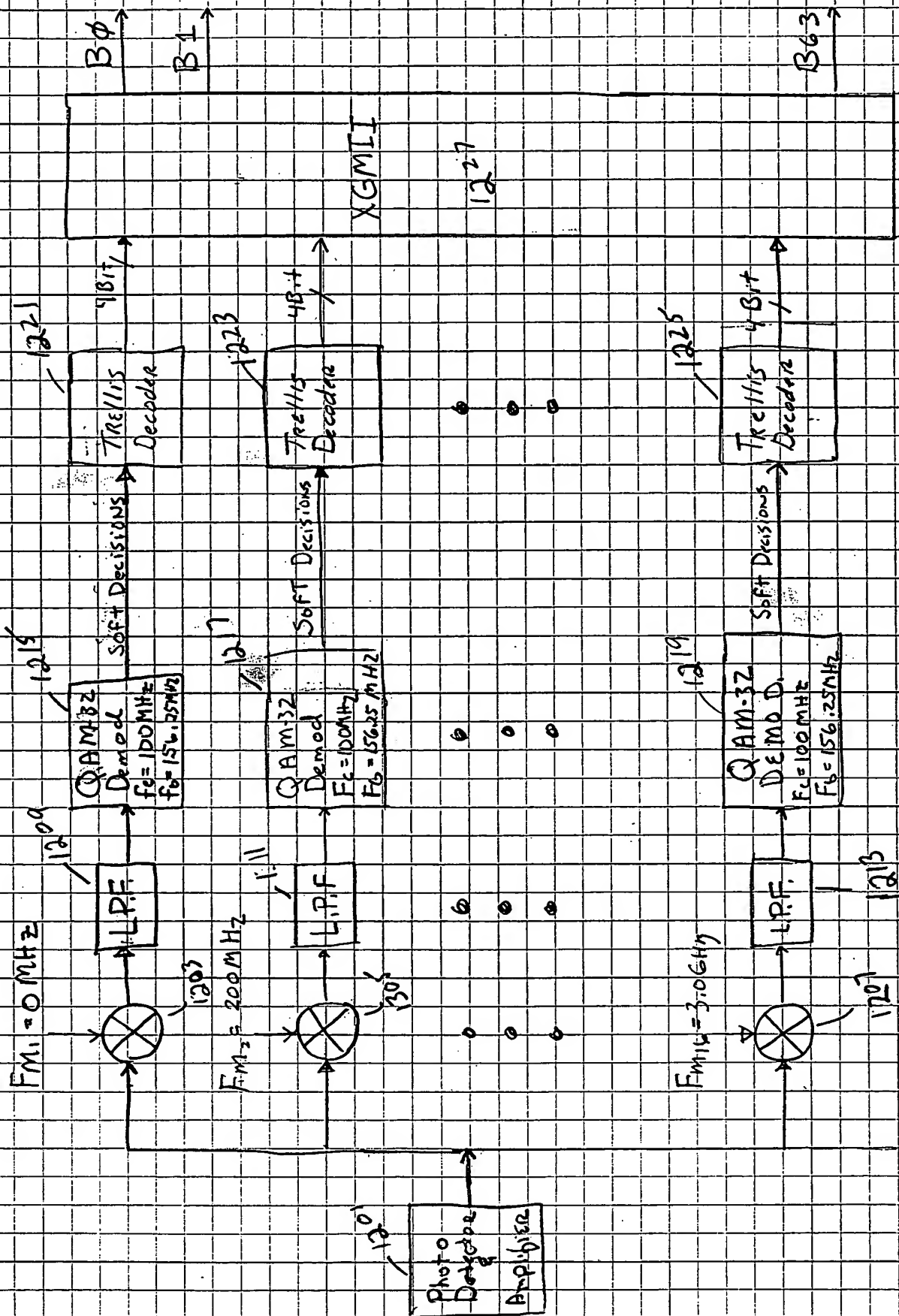


Figure 12c

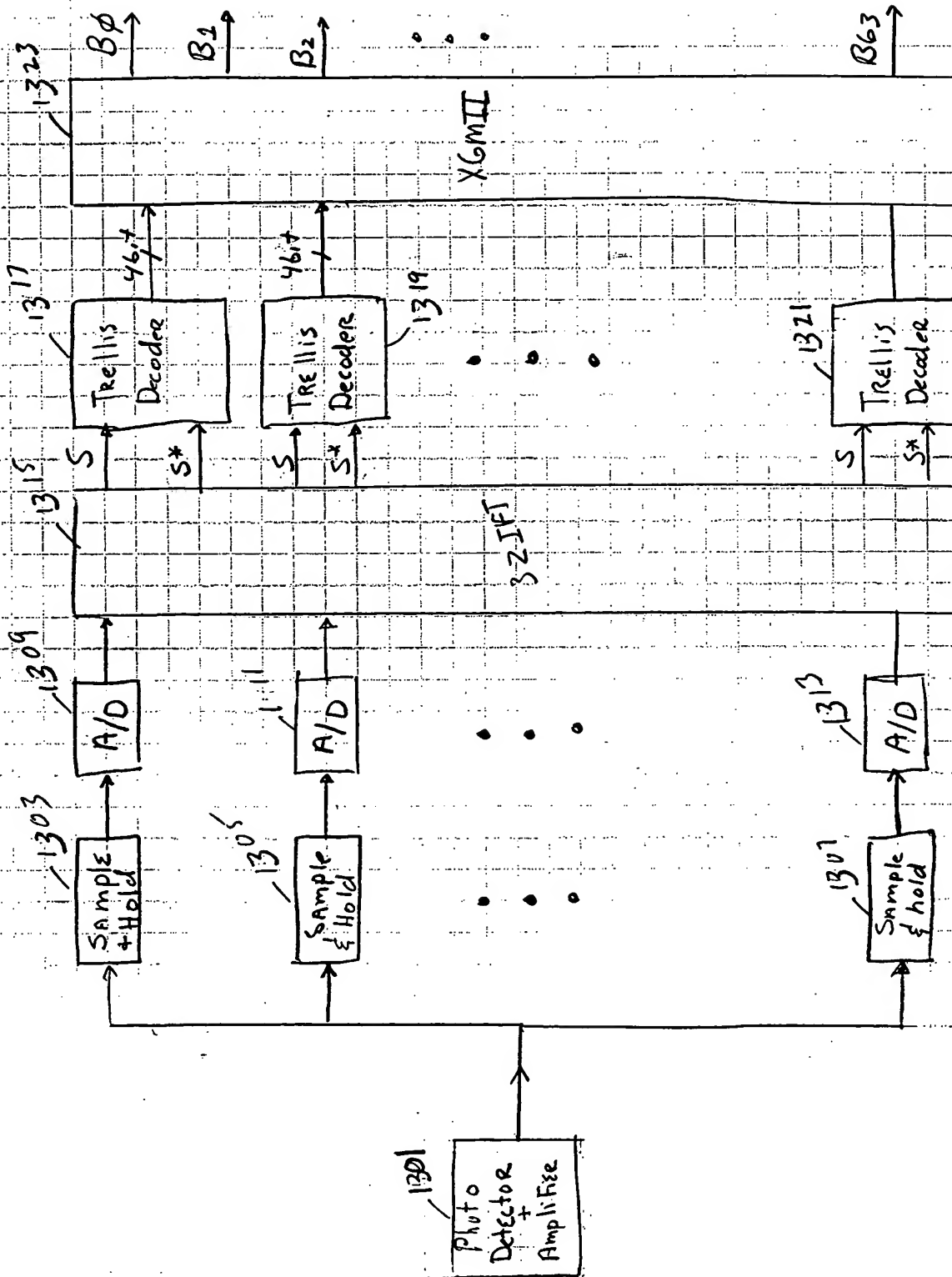


Figure 13